

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 72-17

WASTE DISCHARGE REQUIREMENTS
FOR
CITY OF CALISTOGA

The California Regional Water Quality Control Board, San Francisco Bay Region, finds that:

- A. This Regional Board prescribed requirements for waste discharged by the City of Calistoga, called the discharger below, in Resolution No. 114 adopted on December 18, 1952.
- B. The waste consists of about 225,000 gallons per day (gpd) average dry weather flow of sewage from a population of approximately 1800. The existing primary treatment plant and oxidation ponds are designed for an average flow of 500,000 gpd. The effluent is discharged through an existing 12 inch pipe directly into the Napa River at a point 100 yards north of Dunaweal Lane. Approximately 100,000 gpd are lost from the combined 8.8 acre ponds in dry weather by evaporation and percolation, reducing present dry weather discharge to about 125,000 gpd.
- C. The Board adopted an Interim Water Quality Control Plan for the San Francisco Bay Basin on June 14, 1971.
- D. The beneficial uses of the Napa River downstream from the point of discharge are:
 - Wading
 - Sport fishing
 - Migratory routes for spawning runs of steelhead trout
 - Spawning and nursery areas for steelhead and rainbow trout
 - Agricultural water supply for stock watering, irrigation and frost protection
 - Esthetic enjoyment.
- E. The beneficial uses of ground waters in the Napa River Drainage Basin include:
 - Domestic supply
 - Agricultural supply for stock watering, irrigation and frost protection.
- F. Land within 200 feet of the discharge is used for residence, agriculture, picnicking and recreation.
- G. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge.
- H. The Board, in a public meeting on April 25, 1972, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, the City of Calistoga shall comply with the following:

A. Discharge Specifications

- 1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m)

of the California Water Code

2. The discharge shall not cause:

- a. Floating, suspended, or deposited macroscopic particulate matter or foam, in waters of the State at any place;
- b. Bottom deposits or aquatic growths at any place;
- c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels in waters of the State at any place;
- d. Visible, floating, suspended or deposited oil or other products of petroleum origin in waters of the State at any place;
- e. Waters of the State to exceed the following limits of quality at any place:

Dissolved oxygen	90% saturation, minimum When natural factors cause lesser concentrations, then this discharge shall not cause further reduction in the concentration of dissolved oxygen.
Dissolved sulfide	0.1 mg/l maximum
Nutrients	50 ug chlorophyll a/l When background levels exceed this requirement, then this discharge shall not add further nutrients.
Toxic or Other Deleterious Substances	None shall be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife or waterfowl or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.

3. The waste as discharged or at some point in the treatment process shall meet the following quality limits at all times:

<u>Receiving Water Volumetric Dilution</u>	<u>Coliform organisms</u>
equal to or less than 10 to 1	2.2 MPN/100 ml, moving median of seven consecutive daily samples, maximum.
greater than 10 to 1	23 MPN/100 ml, moving median of seven consecutive samples, maximum.

4. The waste as discharged to waters of the State shall meet these quality limits at all times:

a. In any grab sample:

pH	6.5 minimum 8.5 maximum
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- b. In any representative set of samples:

Toxicity: survival of test fishes in 96-hour bioassays of the waste as discharged

Any determination 70% minimum

Average of any three or more consecutive determinations made during any 21 or more days 90% minimum

- c. In any representative 24-hour composite sample, when receiving water volumetric dilution is equal to or less than 10 to 1:

Turbidity 10 units maximum

5-day BOD 5 mg/l median for any 30-day period
10 mg/l maximum

5. The waste shall not cause the ground water at any point to exceed any of the limits contained in most recent edition of the United States Public Health Service's Drinking Water Standards or any modifications or additions relating to drinking water quality adopted by the California State Board of Health or cause an increase in any quality parameter that would make ground water unsuitable for irrigation usage.

B. Discharge Prohibitions

1. Bypassing of untreated sewage to the Napa River or its tributaries is prohibited.
2. This discharge to the Napa River is prohibited effective December 1, 1974. This Board will determine, subsequent to studies described in C.1. below, periods of time for which an exception to this prohibition may apply if:
 - a. The discharge is part of an approved reclamation project,
or
 - b. An alternate discharge is not practical,
and
 - c. The City demonstrates that the discharge would not cause an unacceptable accumulation of nutrients and/or toxicants in the Napa River.

C. Provisions

1. The City of Calistoga shall comply with the following time schedules and reporting programs.
 - a. Upgrading Existing Plant Facilities to assure compliance with the discharge specifications of this order except receiving water pH and nutrients.

<u>TASK</u>	<u>COMPLETION DATE</u>	<u>STATUS REPORT DATE</u>
Complete improved disinfection facilities and place in operation	April 15, 1972	May 1, 1972
Submit project report if State and Federal Construction grants are to be requested	June 15, 1972	---

<u>TASK</u>	<u>COMPLETION DATE</u>	<u>STATUS REPORT DATE</u>
Complete Plans and Specifications	October 1, 1972	October 15, 1972
Complete Financial Arrangements	November 1, 1972	November 15, 1972
Start of Construction	December 1, 1972	December 15, 1972
50% Completion of Construction	March 1, 1973	March 15, 1973
Compliance with Discharge Specifications except receiving water pH and nutrients	June 1, 1973	June 15, 1973

- b. To assure compliance with all Discharge Specifications and Discharge Prohibition B.2.

<u>TASK</u>	<u>COMPLETION DATE</u>	<u>STATUS REPORT DATE</u>
Complete study into means of compliance	January 1, 1973	July 1, 1972 Sept 1, 1972 Nov. 1, 1972 Jan. 1, 1973
Submit time schedule for compliance to include the following tasks:	March 1, 1973	---

Complete Design
Complete financial arrangements
Start of Construction
50% completion of construction
Compliance with discharge prohibition

- This Board encourages the City of Calistoga, in conjunction with the Cities of St. Helena and Yountville, Pacific Union College, St. Helena Hospital and Health Center and The Napa County Flood Control and Water Conservation District, to begin joint discussions and studies that will lead to the development of a comprehensive water quality management program for the upper Napa Valley and its implementation at the earliest possible date.
- This Order includes items numbered 1, 2, 5, 6 and 7 of the attached "Reporting Requirements" dated August 28, 1970.
- This Order includes items numbered 1 through 7 of the attached "Notifications" dated January 6, 1970.
- Resolution No. 114 is hereby rescinded.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on April 25, 1972.

Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

August 28, 1970

REPORTING REQUIREMENTS

1. This Board requires the discharger to file technical reports on self-monitoring work performed according to detailed specifications developed pursuant to the Regional Board's Resolution No. 70-43. (Reference: Section 13267(b) and 13268, California Water Code.)
2. This Board requires the discharger to file a written report within 90 days after the average dry-weather waste flow for any month equals or exceeds 80% of the design capacity of his waste treatment and/or disposal facilities. The discharger's senior administrative officer shall sign a letter which transmits that report and certifies that the policy-making body is adequately informed about it. The report shall include:

Average daily flow for the month, the date on which the instantaneous peak flow occurred, the rate of that peak flow, and the total flow for that day.

The discharger's best estimate of when the average daily dry-weather flow rate will equal or exceed the design capacity of his facilities.

The discharger's intended schedule for studies, design, and other steps needed to provide additional capacity for his waste treatment and/or disposal facilities before the waste flow rate equals the capacity of present units. (Reference: Sections 13260, 13267(b) and 13268, California Water Code.)

3. This Board requires the discharger to file a time schedule for engineering studies on facilities needed to comply with the Board's receiving water objective of 5.0 mg/l of dissolved oxygen and/or to file a time schedule for deciding upon the feasibility of participating in regional water quality control systems, if he does not meet that dissolved oxygen objective after providing waste treatment facilities which comply with the effluent BOD requirement prescribed elsewhere in this Resolution. (Reference: Sections 13267(b) and 13268, California Water Code.)
4. This Board requires the discharger to file technical reports on studies into correcting violations of the Board's water quality objectives caused by discharging combined storm water and sewage. Specifications for these studies shall be developed pursuant to the Board's Resolution No. 70-43. (Reference: Sections 13267(b) and 13268, California Water Code.)
5. This Board requires the discharger to file written reports within 15 days after each calendar quarter to include:

Name of and number of lots in each subdivision for which an application has been received for connection to the sewerage system. Anticipated date of connection of each subdivision to the sewerage system.

Finding and supporting data by governing body on effect of addition of each subdivision on violation of waste discharge requirements.

(Reference: Section 11551.6 Business and Professions Code and Section 13267(b) and 13268, California Water Code.)

6. This Board requires the discharger to file a report on waste discharge at least 120 days before making any material change or proposed change in the character, location or volume of the discharge. (Reference: Sections 13260(b) and 13264, California Water Code.)
7. This Board requires the discharger to file a written technical report at least 15 days prior to advertising for bids on any construction project which would cause or aggravate the discharge of waste in violation of these requirements; said report to describe the nature, costs, and scheduling of all actions necessary to preclude such discharge. In no case should any discharge of sewage bearing wastes be permitted without at least primary treatment and chlorination. (Reference: Sections 13267(b) and 13268, California Water Code.)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

January 6, 1970

NOTIFICATIONS

1. This Board requests the discharger to take note of the comments and recommendations contained in all the correspondence the Board has received and considered concerning this matter, and the Executive Officer is directed to transmit copies of that correspondence to the discharger.
2. This Board considers "Waters of the State" as defined in Section 13050(e) of the California Water Code to include waste waters over which the discharger has lost control.
3. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the discharger from his liabilities under Federal, State, or local laws, nor guarantee the discharger a capacity right in the receiving waters.
4. This Board will prescribe more restrictive requirements for this waste discharge if necessary:
 - To achieve or maintain dissolved oxygen concentration of at least 5.0 mg/l in tidal waters of the San Francisco Bay System pursuant to Resolution No. 67-30,
 - To protect shellfishing areas which the Board designates pursuant to Resolution No. 803,
 - To protect the beneficial water uses, and to achieve other objectives adopted in the resolutions cited above.
5. This Board will review these requirements periodically, as required by law, and will notify the responsible persons before doing so. (Reference: Section 13263(e), California Water Code.)
6. The water quality parameters used in this resolution are as defined in the latest edition of "Standard Methods for the Examination of Water and Wastewater" by the American Public Health Association.
7. The discharger is advised that this Board will use the general concepts of Phase I of the plan recommended by the Final San Francisco Bay-Delta Program Report as guidelines in reviewing any application for construction grants for sewerage facilities proposed to comply with these requirements, and if the discharger intends to make such application he must demonstrate the compatibility of the proposed facilities with the general concepts of the Bay-Delta Program.